

COMPLETE LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for providing heat spreading to a plasma display panel which comprises discharge cells, ~~wherein in the absence of a heat sink the heat spreader is effective at spreading heat across a plurality of the discharge cells, wherein the~~ consisting essentially of (a) providing a substantially flat heat spreader ~~comprises which consists essentially of~~ one or more sheets of compressed particles of exfoliated graphite ~~which conduct heat along the plane of the one or more sheets of compressed particles of exfoliated graphite, the heat spreader having an adhesive thereon; further wherein (b) providing a release material is positioned such that the adhesive is sandwiched between the one or more sheets of compressed particles of exfoliated graphite and the release material; (c) and the method includes (a) removing the release material; and (b) (d) applying the one or more sheets of compressed particles of exfoliated graphite~~ heat spreader to a plasma display panel such that the ~~one or more sheets of compressed particles of exfoliated graphite~~ heat spreader overlays a plurality of the discharge cells and the adhesive adheres the ~~one or more sheets of compressed particles of exfoliated graphite~~ heat spreader to the plasma display panel sufficiently to maintain the ~~one or more sheets of compressed particles of exfoliated graphite~~ heat spreader in position regardless of the orientation of the plasma display panel.

2. (previously presented) The method of claim 1 wherein the release material and adhesive are selected to permit a predetermined rate of release of the release material without causing undesirable damage to the one or more sheets of compressed particles of exfoliated graphite.

3. (canceled)

4. (previously presented) The method of claim 1 wherein the average release load is no greater than about 10 grams per centimeter at a release speed of one meter per second.

5. (canceled)

6. (previously presented) The method of claim 1 wherein the adhesive achieves an average lap shear adhesion strength of at least about 125 grams per square centimeter.

7. (previously presented) The method of claim 1 wherein the adhesive results in an increase in through thickness thermal resistance of not more than about 35% as compared to the one or more sheets of compressed particles of exfoliated graphite itself.

8. (original) The method of claim 7 wherein the thickness of the adhesive is no greater than about 0.5 mils.

9. (original) The method of claim 8 wherein the thickness of the adhesive is no greater than about 0.25 mils.

10. (canceled)

11. (canceled)

12. (previously presented) The method of claim 1 wherein the one or more sheets of compressed particles of exfoliated graphite comprises a laminate comprising a plurality of sheets of compressed particles of exfoliated graphite.

13- 23 (canceled)

24. (currently amended) A method for providing heat spreading to a display panel comprising a collection of heat sources, wherein the method of heat spreading ~~comprises~~ consists essentially of (a) providing a substantially flat heat spreader ~~comprising~~ consisting essentially of one or more sheets of compressed particles of exfoliated graphite having an adhesive thereon; (b) providing a release material positioned such that the adhesive is sandwiched between the one or more sheets of

compressed particles of exfoliated graphite and the release material; (c) removing the release material; and (d) applying the one or more sheets of compressed particles of exfoliated graphite such that it overlays a plurality of heat sources, wherein in the absence of a heat sink the heat spreader is effective at spreading heat across a plurality of the heat sources.

25. (original) The method of claim 24 wherein the adhesive and release material provide an average release load of no greater than about 40 grams per centimeter at a release speed of one meter per second.

26. (original) The method of claim 25 wherein the average release load is no greater than about 10 grams per centimeter at a release speed of one meter per second.

27. (canceled)

28. (previously presented) The method of claim 24 wherein the adhesive achieves an average lap shear adhesion strength of at least about 125 grams per square centimeter.

29. (previously presented) The method of claim 24 wherein the adhesive results in an increase in through thickness thermal resistance of not more than

about 35% as compared to the one or more sheets of compressed particles of exfoliated graphite itself.

30. (original) The method of claim 29 wherein the thickness of the adhesive is no greater than about 0.5 mils.

31. (original) The method of claim 30 wherein the thickness of the adhesive is not greater than about 0.25 mils.

32. (canceled)

33. (canceled)

34. (previously presented) The method of claim 24 wherein the one or more sheets of compressed particles of exfoliated graphite comprises a laminate comprising a plurality of sheets of compressed particles of exfoliated graphite.

35. (previously presented) The method of claim 1, wherein the heat spreader is at least about 270 millimeters by about 500 millimeters in area.

36. (currently amended) The method of claim 1, wherein the image area of the plasma display panel is at least about 1 meter, measured ~~from~~ from corner to corner.

37. (previously presented) The method of claim 24, wherein the heat spreader is at least about 270 millimeters by about 500 millimeters in area.

38. (currently amended) A heat spreader for a plasma display panel which comprises discharge cells, ~~comprising~~ consisting essentially of one or more substantially flat sheets of compressed particles of exfoliated graphite having a pressure sensitive adhesive thereon, wherein the adhesive achieves a minimum lap shear adhesion strength of at least about 125 grams per square centimeter such that the adhesive adheres the one or more sheets of compressed particles of exfoliated graphite to the plasma display panel sufficiently to maintain the one or more sheets of compressed particles of exfoliated graphite in position regardless of the orientation of the plasma display panel.

39. (previously presented) The heat spreader of claim 38 wherein the adhesive achieves an average lap shear adhesion strength of at least about 700 grams per square centimeter.

40. (previously presented) The heat spreader of claim 38 wherein the adhesive results in an increase in through thickness thermal resistance of not more than about 35% as compared to the one or more sheets of compressed particles of exfoliated graphite itself.

41. (previously presented) The heat spreader of claim 40 wherein the thickness of the adhesive is no greater than about 0.5 mils.

42. (previously presented) The heat spreader of claim 41 wherein the thickness of the adhesive is no greater than about 0.25 mils.

43. (previously presented) The heat spreader of claim 38 wherein the one or more sheets of compressed particles of exfoliated graphite comprises a laminate comprising a plurality of sheets of compressed particles of exfoliated graphite.

44. (currently amended) A method for providing heat spreading to a display device comprising a collection of heat sources, ~~comprising the method consisting essentially of applying a substantially flat~~ heat spreader to the collection of heat sources so as to overlay a plurality of the heat sources, ~~wherein in the absence of a heat sink the heat spreader is effective at spreading heat across a plurality of the heat sources, and further wherein the heat spreader comprises~~ consists essentially of one or more sheets of compressed particles of exfoliated graphite which conduct

heat along the plane of the one or more sheets of compressed particles of exfoliated graphite.

45. (previously presented) The method of claim 44 wherein the display panel comprises an emissive display device.

46. (previously presented) The method of claim 45 wherein the display panel comprises a plasma display panel and the heat sources comprise discharge cells.

47. (previously presented) The method of claim 44 wherein the one or more sheets of compressed particles of exfoliated graphite comprises a laminate comprising a plurality of sheets of compressed particles of exfoliated graphite.

48. (previously presented) The method of claim 24 wherein the display panel comprises an emissive display device.

49. (previously presented) The method of claim 48 wherein the display panel comprises a plasma display panel and the heat sources comprise discharge cells.

50. (previously presented) The method of claim 24 wherein the one or more sheets of compressed particles of exfoliated graphite comprises a laminate comprising a plurality of sheets of compressed particles of exfoliated graphite.